

Surveillance Camera Systems

Closed Circuit TV (CCTV) and Sub-Sea TV (SSTV) systems

- **Modular design**
- **Integrated systems**
- **Reliability**
- **Flexibility**
- **User friendliness**
- **Best life-cycle cost**
- **Standard or tailor-made systems**

Fugro is a leading system contractor with reliable, cost-effective and user-friendly systems.

Having gained experience from the demanding Offshore Industry, we cover all phases of a project, ensuring the customers get the optimal systems for present and future needs: initial survey, scope of work, engineering, procurement, production, documentation, installation, commissioning, spares and maintenance.



Our range includes integrated CCTV for both safe and hazardous areas, and sub-sea TV systems (guideline, guideline-less or fixed). System configuration includes any required signal distribution, multiplexers and recording equipment, and integration with other systems (drilling systems and office networks).

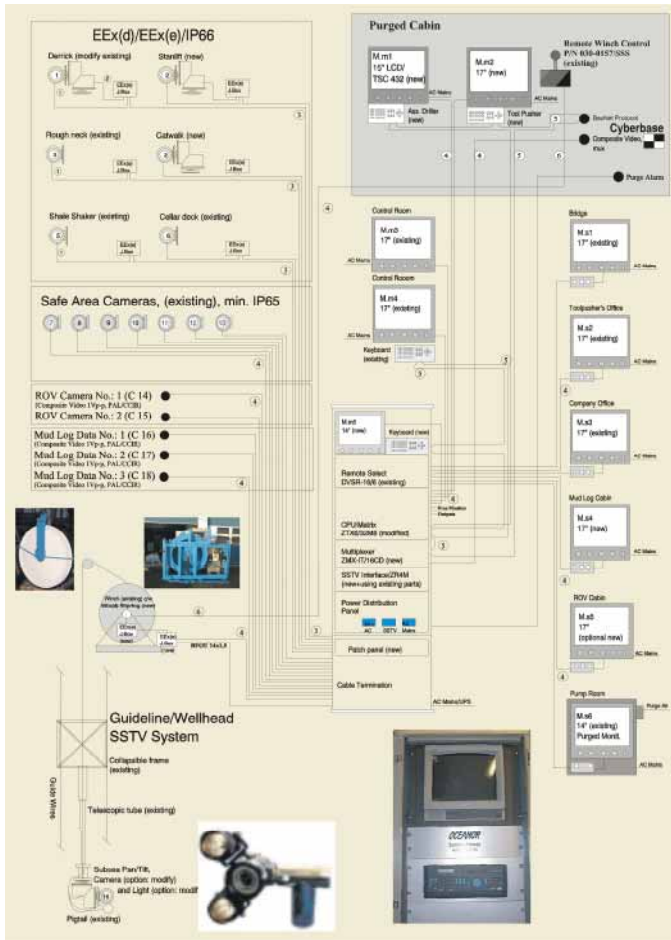
Typical configuration elements include:

- **Central equipment:**
CPU/matrices, video selectors, multiplexers, distribution systems, time-lapse recorders
- **Monitors and operator's keyboards:**
indoors, outdoors and hazardous areas
- **Cameras, pan/tilt units:**
indoors, outdoors, hazardous areas, and sub-sea and pendulum crane boom cameras
- **Sub-sea TV system:**
winches, cables, sub-sea frame and telescope for wellhead/guideline TV systems, clamping and bombshell tools for guideline SSTV systems.

Central equipment can be adopted to fit most customer's requirements ie:

- small video select/camera control systems for a few cameras into one or a few monitors;
- large complex systems involving several cameras, multiple operators-multiple monitors system;





- signal distribution involving twisted pair, coaxial cable or fibre-optical communication; and
- integration with LAN/WAN and drilling control systems.

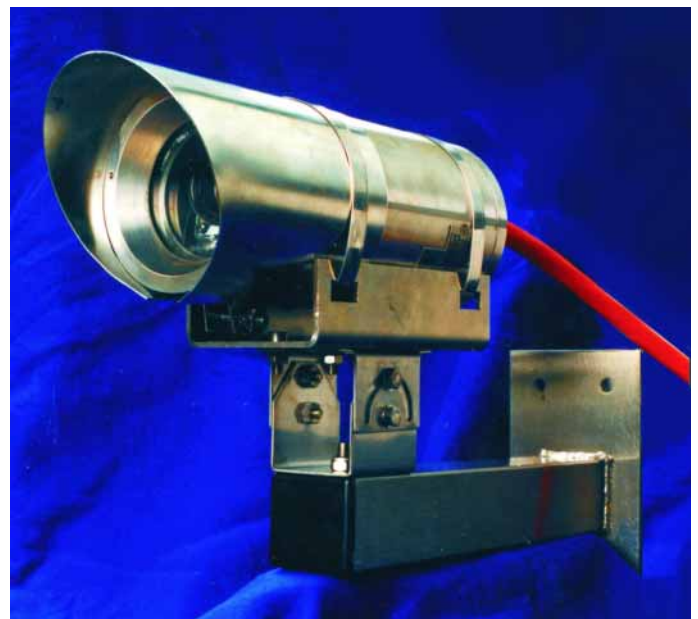
Miniaturised CCTV Surveillance System

The Fugro ex-proof miniaturised CCTV surveillance system is ideal for monitoring vital operations in hazardous environment. Due to its compact dimensions and easy installation the systems are well suited for workover and service modules frequently being mobilised and demobilised.

Typical applications are: mud pumps and shale shaker areas, derrick man, finger-board, coiled tubing, well intervention systems, etc.

The standard monitor/control cabinet is equipped with connection for two camera stations. The cameras are normally equipped with high-resolution colour camera units with 12 x zoom and (overrideable) autofocus.

Using a 15" TFT LCD display (other sizes available), the stainless steel EEx(p)purged cabinet contains all required equipment: camera, purge controller, power supplies and terminals, but measures only 470mm (width) x 600mm (height) x 170mm (depth).



Some typical applications for Surveillance cameras:

- Offshore Drilling platforms & rigs
- FPSO's, Tankers & vessels (ISPS)
- Ports & Harbours
- Onshore oil & Gas projects



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